

Form PTO-1449

Docket Number (Optional)
APV-036.06Applicant Number
09,491**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Applicant
Berlin, V. et al.Filing Date
2 March 2000

Group Art Unit

U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3,929,992	12/75	Sehgal et al.	424	122
AB	5,283,317	02/94	Saifer et al.	528	405
AC	5,322,772	06/94	Soldin	435	7.9
AD	5,354,845	11/94	Soldin	530	350
AE					
AE					
AG					

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
AH	WO 94/10300	05/94	PCT				
AI							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AJ	Alarcon, C. et al., "Mammalian RAFT1 Kinase Domain Provides Rapamycin-sensitive TOR Function in Yeast", <i>Genes Dev.</i> 10(3):
AK	Albers, M. et al., "FKBP-Rapamycin Inhibits a Cyclin-dependent Kinase activity and a Cyclin D1-Cdk Association in Early G1 of an Osteosarcoma Cell Line", <i>J. Biol. Chem.</i> 268: 22825-22829 (1993)
AL	Barbet, N. et al., "TOR Controls Translation Initiation and Early G1 Progression in Yeast", <i>Mol. Biol. Cell</i> 7(1): 25-42 (1996)
AM	Bierer, B. et al., "Probing Immunosuppressant Action with a Nonnatural Immunophilin Ligand", <i>Science</i> 250: 556-559 (1990)
AN	Bierer, B. et al., "Two Distinct Signal Transmission Pathways in T Lymphocytes are Inhibited by Complexes Formed between an Immunophilin and either FK506 or Rapamycin", <i>Proc. Nat. Acad. Sci. USA</i> 87: 231-9235
AO	Brown, . Et al., "A Mammalian Protein Targeted by G1-arresting Rapamycin-receptor Complex", <i>Nature</i> 369: 756-758 (1994)
AP	Cafferkey, R. et al., "Dominant Missense Mutations in a Novel Yeast Protein Related to Mammalian Phosphatidylinositol 3-Kinase and VPS34 Abrogate Rapamycin Cytotoxicity", <i>Mol. Cell. Biol.</i> 13: 6012-6023
AQ	Cafferkey, R. et al., "Yeast TOR (DRR) Proteins: Amino-acid Sequence Alignment and Identification of Structural Motifs", <i>Gene</i> 141: 133-136 (1994)
AR	Cardenas, M. and Heitman, J. "FKBP12-rapamycin Target TOR2 is a Vacuolar Protein with an Associated Phosphatidylinositol-4 Kinase Activity", <i>EMBO J.</i> 14(23): 5892-5907 (1995)
AS	Chui, M. et al., "RAP1, a Mammalian Homolog of Yeast Tor, Interacts with the FKBP12/rapamycin Complex", <i>Proc. Nat. Acad. Sci. USA</i> 91: 12574-12578 (1994)

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1645

OTHER DOCUMENTS

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AT	Chung, J. et al., "Rapamycin-FKBP Specifically Blocks Growth-Dependent Activation of and Signaling by the 70 kd S6 Protein Kinases", <i>Cell</i> 69: 1227-1236 (1992)
AB	DiLella, A. and Craig, R., "Exon Organization of the Human FKBP-12 Gene: Correlation with Structural and Functional Protein Domains", <i>Biochem.</i> 30: 8512-8517 (1991)
AV	Draetta, G., "Cell Cycle Control in Eukaryotes: Molecular Mechanisms of cdc2 Activation", <i>Trends Biol. Sci.</i> 15: 378-383 (1990)
AW	Dumont, F. et al., "The Immunosuppressive Macrolides FK-506 and Rapamycin Act as Reciprocal Antagonists in Murine T Cells", <i>J. Immunol.</i> 144: 1418-1424 (1990)
AX	Ferrara, A. et al., "Cloning and Sequence Analysis of a Rapamycin-binding Protein-encoding Gene (RBP1) from <i>Candida Albicans</i> ", <i>Gene</i> 113: 125-127 (1992)
AY	Francavilla, A. et al., "Effects of Rapamycin on Cultured Hepatocyte Proliferation and Gene Expression", <i>Hepatol.</i> 15: 871-877 (1992)
AZ	Freeman, K. and Livi, G., "Missense Mutations at the FKBP12-rapamycin-binding Site of TOR1", <i>Gene</i> 172(1): 143-147 (1996)
BA	Fruman, D. et al., "Immunophilins in Protein Folding and Immunosuppression", <i>FASEB J.</i> 8: 391-400 (1994)
BB	Galat, A. "Peptidylproline <i>cis-trans</i> -isomerases: Immunophilins", <i>Eur. J. Biochem.</i> 216: 689-707 (1993)
BC	Harding, M. et al., "A Receptor for the Immunosuppressant FK506 is a <i>cis-trans</i> Peptidyl-prolyl Isomerase", <i>Nature</i> 341: 758-760 (1989)
BD	Heitman, J. et al., "Targets for Cell Cycle Arrest by the Immunosuppressant Rapamycin in Yeast", <i>Science</i> 253: 905-909 (1991)
BE	Helliwell, S. et al., "TOR1 and TOR2 are Structurally and Functionally Similar but not Identical Phosphatidylinositol Kinase Homologues in Yeast", <i>Mol. Biol. Cell.</i> 5: 105-118 (1994)
BF	Huang, M. et al., Analysis of a 62 kb DNA Sequence of Chromosome X Reveals 36 Open Reading Frames and a Gene Cluster with a Counterpart on Chromosome XI", <i>Yeast</i> 12 (9): 869-875 (1996)
BG	Kato, R. and Ogawa, H., "An Essential Gene, ESR1, is Required for Mitotic Cell Growth, DNA Repair and Meiotic Recombination in <i>Saccharomyces Cerevisiae</i> ", <i>Nucl. Acid Res.</i> 22(15): 3104-3112 (1994)
BH	Kunz, J. et al., "Target of Rapamycin in Yeast, TOR2, Is an Essential Phosphatidylinositol Kinase Homolog Required for G ₁ Progression", <i>Cell</i> 73: 585-596 (1993)
BI	Lorenz, M. and Heitman, J., "TOR Mutations Confer Rapamycin Resistance by Preventing Interaction with FKBP12-Rapamycin", <i>J. Biol. Chem.</i> 270(46): 27531-27537 (1995)
BJ	Morice, W. et al., "Rapamycin-induced Inhibition of p34 ^{cdc2} Kinase Activation is Associated with G ₁ /S-phase Growth Arrest in T Lymphocytes", <i>J. Biol. Chem.</i> 268: 3734-3738 (1993)
BK	Pardee, A., "G ₁ Events and Regulation of Cell Proliferation", <i>Science</i> 246: 603-608 (1989)
BL	Price, D. et al., "Rapamycin-Induced Inhibition of the 70-Kilodalton S6 Protein Kinase", <i>Science</i> 257: 973-977 (1992)
BM	Sabatini, D. et al., "The Rapamycin and FKBP12 Target (RAFT) Displays Phosphatidylinositol 4-Kinase Activity", <i>J. Biol. Chem.</i> 270(36): 20875-20878 (1995)
BN	Sabatini, D. et al., "RAFT1: A Mammalian Protein that Binds to FKBP12 in a Rapamycin-dependent Fashion and is Homologous to Yeast TORs", <i>Cell</i> 78: 35-38 (1994)

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BO	Sabers, C. et al., "Isolation of a Protein Target of the FKBP12-rapamycin Complex in Mammalian Cells", <i>J. Biol. Chem.</i> 270 : 815-822 (1995)
BP	Schmidt, A. et al., "TOR2 is Required for Organization of the Actin Cytoskeleton in Yeast", <i>Proc. Nat. Acad. Sci. USA</i> 93 (24): 13780-13785 (1996)
BS	Schreiber, S., "Immunophilin-sensitive Protein Phosphatase Action in Cell Signaling Pathways", <i>Cell</i> 70 : 365-368 (1992)
BR	Schreiber, S. and Crabtree, G., "The Mechanism of Action of Cyclosporin A and FK506", <i>Immunol. Today</i> 13 : 136-142 (1992)
BS	Sehgal, S. et al., "Rapamycin (AY-22,989), A New Antifungal Antibiotic. II. Fermentation, Isolation and Characterization", <i>J. Antibiotics</i> 28 : 727-732 (1975)
BT	Sherr, C., "Mammalian G _i Cyclins", <i>Cell</i> 73 : 1059-1065 (1993)
BU	Siekierka, J. et al., "A Cytosolic Binding Protein for the Immunosuppressant FK506 has Peptidylprolyl Isomerase Activity but is Distinct from Cyclophilin", <i>Nature</i> 341 : 755-757 (1989)
BV	Sigal, N. and Dumont, F., "CYCLOSPORIN A, FK-506, AND RAPAMYCIN: Pharmacologic Probes of Lymphocyte Signal Transduction", <i>Ann. Rev. Immunol.</i> 10 : 519-560 (1992)
BW	Sigal, N. et al., "Inhibition of Human T-cell Activation by FK 506, Rapamycin, and Cyclosporine A", <i>Transplantation Proc.</i> 23 (2 Supp. 2): 1-5 (1991)
BX	Silver, L. et al., "TOR1 is a Novel, Variant Form of Mouse Chromosome 17 with a Deletion in a Partial T Haplotype", <i>Nature</i> 301 (5899): 422-424 (1983)
BY	Soltoff, S. et al., "Nerve Growth Factor Promotes the Activation of Phosphatidylinositol 3-Kinase and its Association with the <i>trk</i> Tyrosine Kinase", <i>J. Biol. Chem.</i> 267 : 17472-17477 (1992)
BZ	Stan, R. et al., "Interaction between FKBP12-rapamycin and TOR Involves a Conserved Serine Residue", <i>J. Biol. Chem.</i> 269 (51): 32027-32030 (1994)
CA	Van Duyne, G. et al., "Atomic Structure of FKBP-FK506, an Immunophilin-immunosuppressant Complex", <i>Science</i> 252 : 839-843 (1991)
CB	Van Duyne, G. et al., "Atomic Structures of the Human Immunophilin FKBP-12 Complexes with FK506 and Rapamycin", <i>J. Mol. Biol.</i> 229 : 105-124 (1993)
CC	Vezina, C. et al., "Rapamycin (AY-22,989), a New Antifungal Antibiotic. I. Taxonomy of the Producing Streptomycete and Isolation of the Active Principle", <i>J. Antibiotics</i> 28 : 721-726 (1975)
CD	Walsh, C. et al., "Cyclosporin A, the Cyclophilin Class of Peptidylprolyl Isomerases, and Blockade of T Cell Signal Transduction", <i>J. Biol. Chem.</i> 267 : 13115-13118 (1992)
CE	Zheng, X. et al., "TOR Kinase Domains are Required for Two Distinct Functions, Only One of which is Inhibited by Rapamycin", <i>Cell</i> 82 (1): 121-130 (1995)
CF	Berlin, V. "Identification of Novel Immunosuppressant", Abstract of NIH Grant R43AI34189 (1993)
CG	International Search Report, October 1995
CH	

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Robert Z...

1-9-03

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